

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Declaration and Power of Attorney for Patent Application

As a named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name:

I believe I am the original, first and sole inventor (if only one name is listed in the signatory page(s) commencing at page 3 hereof) or an original, first and joint inventor (if plural names are listed in said signatory page(s)) of the subject matter which is claimed and for which a patent is sought on the invention entitled

**DIGITAL DATA STORAGE SUBSYSTEM INCLUDING ARRANGEMENT FOR INCREASING CACHE
MEMORY ADDRESSABILITY**

the specification of which (check one)

is attached hereto.

was filed on June 29, 2001 as United States Application Serial No.: 09/896,485
and was amended on _____ (if applicable).

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I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known by me to be material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

| <u>Prior Foreign Application(s)</u> | | | <u>Priority Not Claimed</u> | <u>Certified Copy Filed?</u> |
|-------------------------------------|------------------|-------------------------------|-------------------------------------|----------------------------------|
| <u>YES</u> | <u>NO</u> | | | |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Day/Month/Year filed)</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Day/Month/Year filed)</u> | <input type="checkbox"/> | <input type="checkbox"/> |
| <u>(Number)</u> | <u>(Country)</u> | <u>(Day/Month/Year filed)</u> | <input type="checkbox"/> | <input type="checkbox"/> |

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

(Application Number) (Filing Date)

(Application Number) (Filing Date)

PATENT/Declaration and Power of Attorney - Post Filing
Attorney Docket No.: EMC-01-081

-2-

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information known by me to be material to patentability as defined in 37 C.F.R. 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

| (Application Serial No.) | (Filing date) | (Status: patented, pending, abandoned) |
|--------------------------|---------------|--|
| | | |
| | | |
| | | |

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s):

Richard A. Jordan, Reg. No. 27,807
John M. Gunther, Reg. No. 26,175
Leanne J. Fitzgerald, Reg. No. 40,606
William R. Clark, Reg. No. 29,523
Krishnendu Gupta, Reg. No. 37,977
Penelope S. Wilson, Reg. No. 29,751
Robert Kevin Perkins, Reg. No. 36,634

the last six named of EMC Corporation, Office of the General Counsel, 35 Parkwood Drive, Hopkinton, MA 01749 and Richard A. Jordan, Esq. of P.O. Box 81363, Wellesley Hills, MA 02481

to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Please send correspondence to: Penelope S. Wilson, Esq.

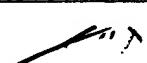
EMC Corporation, Office of the General Counsel, 35 Parkwood Drive, Hopkinton, MA 01749

Direct telephone calls to: Penelope S. Wilson, Esq. Telephone No.: 508-435-1000 Ext. 77998

Direct facsimiles to: Penelope S. Wilson, Esq. Facsimile No.: 508-293-77998

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | |
|---|---|
| Full name of sole or first inventor: | Natan Vishlitzky |
| Inventor's Signature: |  |
| Date: | 4/9/02 |
| Residence: | 87 Clinton Road #2, Brookline, MA 02445 |
| Citizenship: | USA and Israeli |
| Mailing Address: | 87 Clinton Raod #2, Brookline, MA 01532 |

| | |
|--|---|
| Full name of second joint inventor, if any: | Haim Kopylovitz |
| Inventor's Signature: |  |
| Date: | 04/09/2002 |
| Residence: | 9 Columbia Street, Brookline, MA 02446 1175 Chestnut St. #23 |
| Citizenship: | USA Israel Newton, MA 02464 |
| Mailing Address: | 9 Columbia Street, Brookline, MA , 02446 |

| | |
|---|--|
| Full name of third joint inventor, if any: | Eli Shagam |
| Inventor's Signature: |  |
| Date: | APR 9 2002 |
| Residence: | 1265 Beach Street, Apt. 606, Brookline, MA 02446 |
| Citizenship: | USA |
| Mailing Address: | 1265 Beach St., Apt. 606, Brookline, MA , 02446 |

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ORIGINALLY FILED



PATENT
Docket No. EMC-01-081

#4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

| | | | |
|--------------|--|-----------------|---------|
| APPLICANT: | Natan Vishlitzky | GROUP ART UNIT: | 2185 |
| U.S.S.N.: | 09/896,485 | EXAMINER: | Unknown |
| FILING DATE: | June 29, 2001 | | |
| TITLE: | DIGITAL DATA STORAGE SUBSYSTEM INCLUDING ARRANGEMENT FOR INCREASING CACHE MEMORY ADDRESSABILITY | | |

Assistant Commissioner for Patents
Washington, DC 20231

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**ASSOCIATE POWER OF ATTORNEY AND
CHANGE OF CORRESPONDENCE ADDRESS**

Sir:

Please recognize the following as Associate Attorneys in this application:

William R. Clark, Reg. No. 29,523
Leanne J. Fitzgerald, Reg. No. 40,606
Krishnendu Gupta, Reg. No. 37,977

Penelope S. Wilson, Reg. No. 29,751
Robert Kevin Perkins, Reg. No. 36,634

Dated: April 19, 2002

Richard A. Jordan
Richard A. Jordan, Reg. No. 27,807
Principal Attorney of Record

Please direct all future correspondence to:

Penelope S. Wilson, Esq.
Office of the General Counsel
EMC Corporation
35 Parkwood Drive
Hopkinton, MA 01748-9103
Telephone: (508) 435-1000, Ext. 77998
Facsimile: (508) 293-7189

CERTIFICATE OF MAILING OR TRANSMISSION UNDER 37 CFR 1.8

I certify that this document is being deposited on April 22, 2002 with the U.S. Postal Service
as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C.
20231.

Angela F. Muise
Angela F. Muise

Form PTO-1595
(Rev. 03/01)
OMB No. 0651-0027 (exp. 5/31/2002)

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Natan Vishlitzky
Haim Kopylovitz
Eli Shagam

MAY 02 2002

TM
U.S. PATENT & TRADEMARK OFFICE

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: 04/09/2002

2. Name and address of receiving party(ies)

Name: Penelope S. Wilson, Esq.

Internal Address: EMC Corporation

Street Address: 35 Parkwood Drive

City: Hopkinton State: MA Zip: 01748

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/896,485

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Penelope S. Wilson, Esq.

Internal Address: EMC Corporation

Street Address: 35 Parkwood Drive

City: Hopkinton State: MA Zip: 01748

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

05-0889

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Penelope S. Wilson, Reg. 29,751

Name of Person Signing

Penelope S. Wilson 4/16/02

Signature

Date

Total number of pages including cover sheet, attachments, and documents 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

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ASSIGNMENT

COPY

WHEREAS, I, Natan Vishlitzky, Haim Kopylovitz and Eli Shagam have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled **DIGITAL DATA STORAGE SUBSYSTEM INCLUDING ARRANGEMENT FOR INCREASING CACHE MEMORY ADDRESSABILITY**, the specification of which:

- is being executed on even date herewith and is about to be filed in the United States Patent Office;
- was filed on June 29, 2001 as U.S. Application No. 09/896,485
- was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 35 Parkwood Drive, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, I hereby further agree for me and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue,

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divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal as set forth below:

Date: 5/9/02


Inventor's Signature

Print full name of sole inventor:

Natan Vishlitzky

Residence:

87 Clinton Road #~~12~~, Brookline, MA 02445

Citizenship:

USA

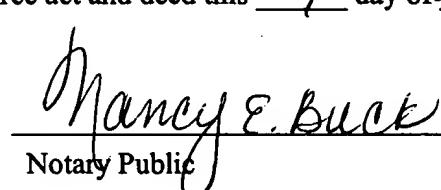
Mailing Address:

87 Clinton Raod #~~12~~, Brookline, MA 02445

STATE/COMMONWEALTH OF
COUNTY OF

Massachusetts
Middlesex

Then personally appeared before me the above-named Natan Vishlitzky and acknowledged that he executed the foregoing instrument as his free act and deed this 9 day of April, 2002
2002.


Nancy E. Buck
Notary Public

Print Name: Nancy E. Buck
My Commission expires 9/4/2003

-3-

Date: 4-9-02


Inventor's Signature

Print full name of sole inventor:

Haim Kopylovitz

Residence:

~~9 Columbia Street, Brookline, MA 02446~~

Citizenship:

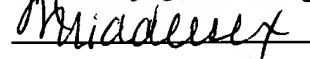
~~USA ISRAEL~~

Mailing Address:

~~9 Columbia Street, Brookline, MA 02445~~

1175 CHESTNUT ST UNIT #2


Massachusetts


Newton

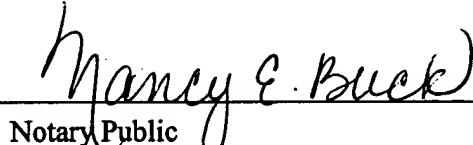
STATE/COMMONWEALTH OF

COUNTY OF

Massachusetts

Middlesex

Then personally appeared before me the above-named ~~Haim Kopylovitz~~ ~~Natan Vichnitzky~~ and acknowledged that he executed the foregoing instrument as his free act and deed this 9 day of April 2002 2002.


Nancy E. Buck

Notary Public

Print Name: Nancy E. Buck

My Commission expires 9/4/2023

-4-

Date: 4-9-02



Inventor's Signature

Print full name of sole inventor:

Eli Shagam

Residence:

1265 Beach Street, Apt. 606, Brookline, MA
02446

Citizenship:

USA

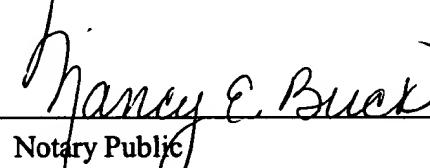
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02446

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he executed the foregoing instrument as his free act and deed this 9 day of April, 2002
2002.


Notary Public

Print Name: Nancy E. Buck

My Commission expires 9/4/2003